



# Overview of California's Industry and Occupational Projections

Health Workforce Development Council

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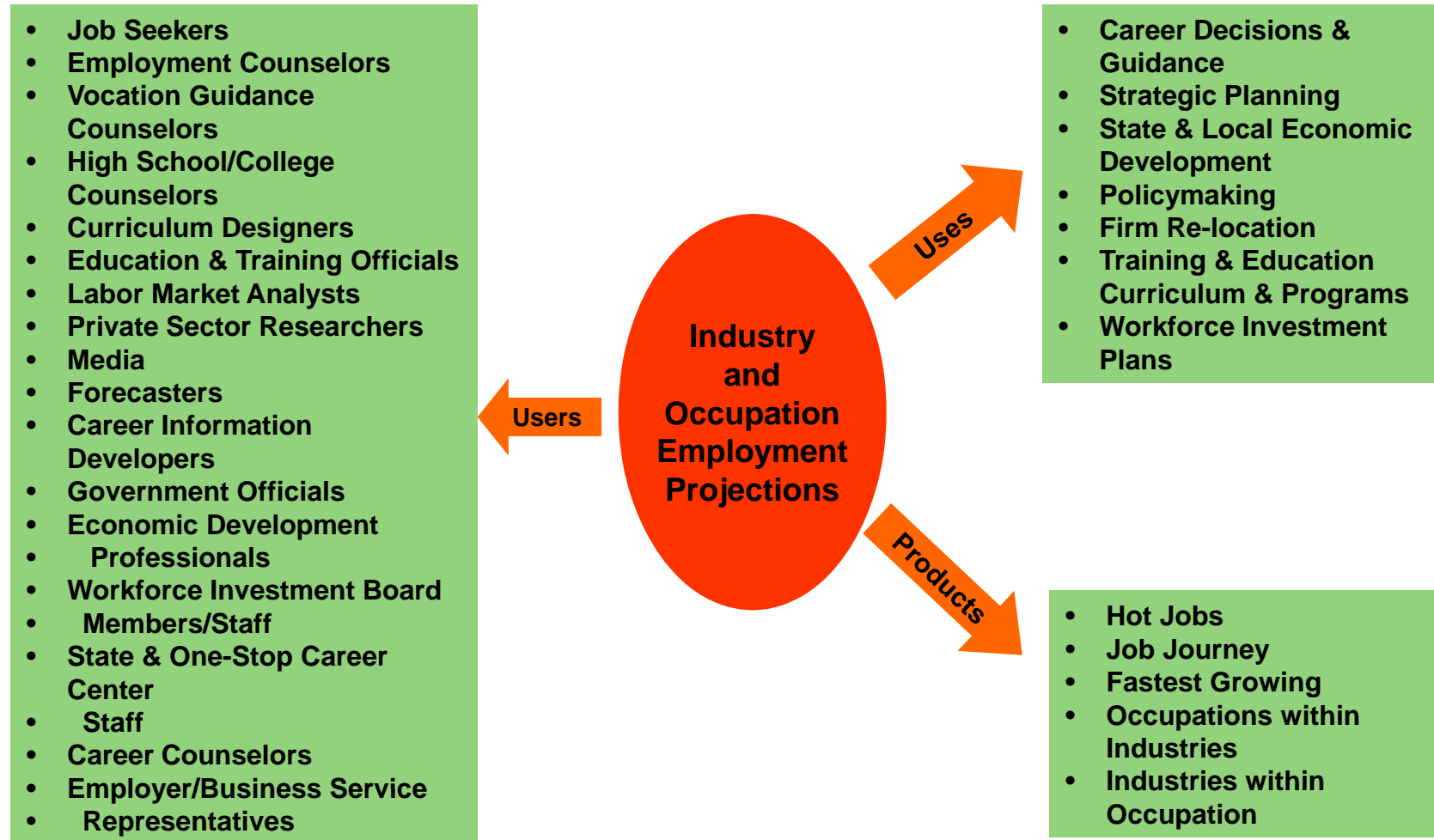
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# Projections Overview

- Produced by Labor Market Information Division (LMID) under contract with the U.S. Department of Labor, Employment and Training Administration, and in cooperation with the Bureau of Labor Statistics
- Methods, software consistent across the nation
- Industry and occupational employment projected
- Short-term (2-year) projections for the State on an annual basis
- Long-term (10-year) projections for the State and sub-state areas every two years

# Uses of Employment Projections



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# Industry Employment Projections

- Based on past industry employment trends
- Refined by a review of current economic developments that may affect employment within each industry



# Health Care Industries

## ■ Ambulatory Health Care Services

- ☐ Offices of Physicians
- ☐ Offices of Dentists
- ☐ Offices of Other Health Practitioners
- ☐ Outpatient Care Centers
- ☐ Medical and Diagnostic Laboratories
- ☐ Home Health Care Services
- ☐ Other Ambulatory Health Care Services

## ■ Hospitals

- ☐ General Medical and Surgical Hospitals
- ☐ Psychiatric & Substance Abuse Hospitals
- ☐ Other Hospitals

## ■ Nursing and Residential Care Facilities

- ☐ Nursing Care Facilities
- ☐ Residential Mental Health Facilities
- ☐ Community Care Facility for the Elderly
- ☐ Other Residential Care Facilities

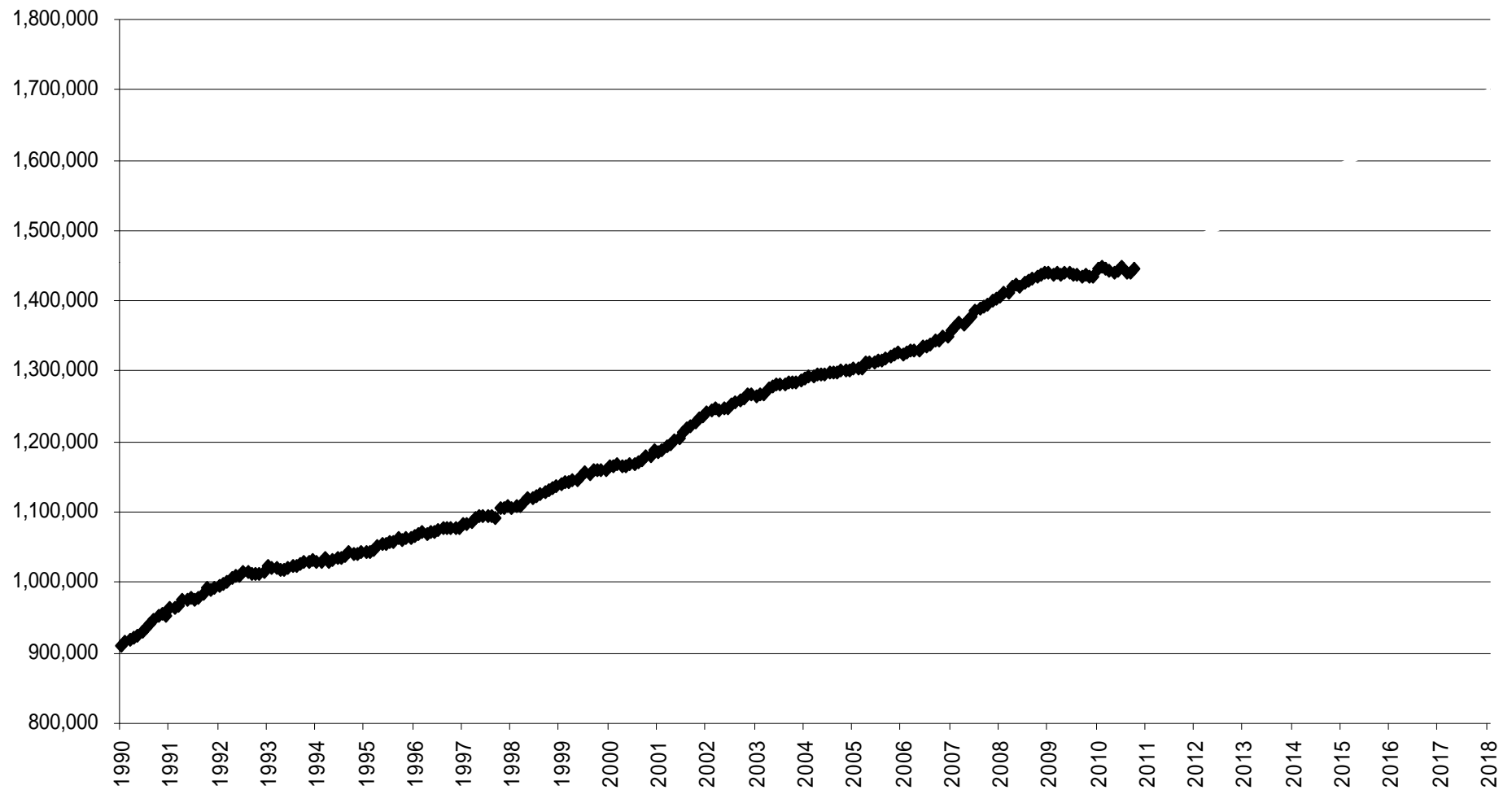


# Industry Data Sources

- Current Employment Statistics (CES)
- Quarterly Census of Employment and Wages (QCEW)
- Independent Variables – Personal Income, Population, New Homes Permitted, Unemployment Rate, Consumer Price Index
- National projections



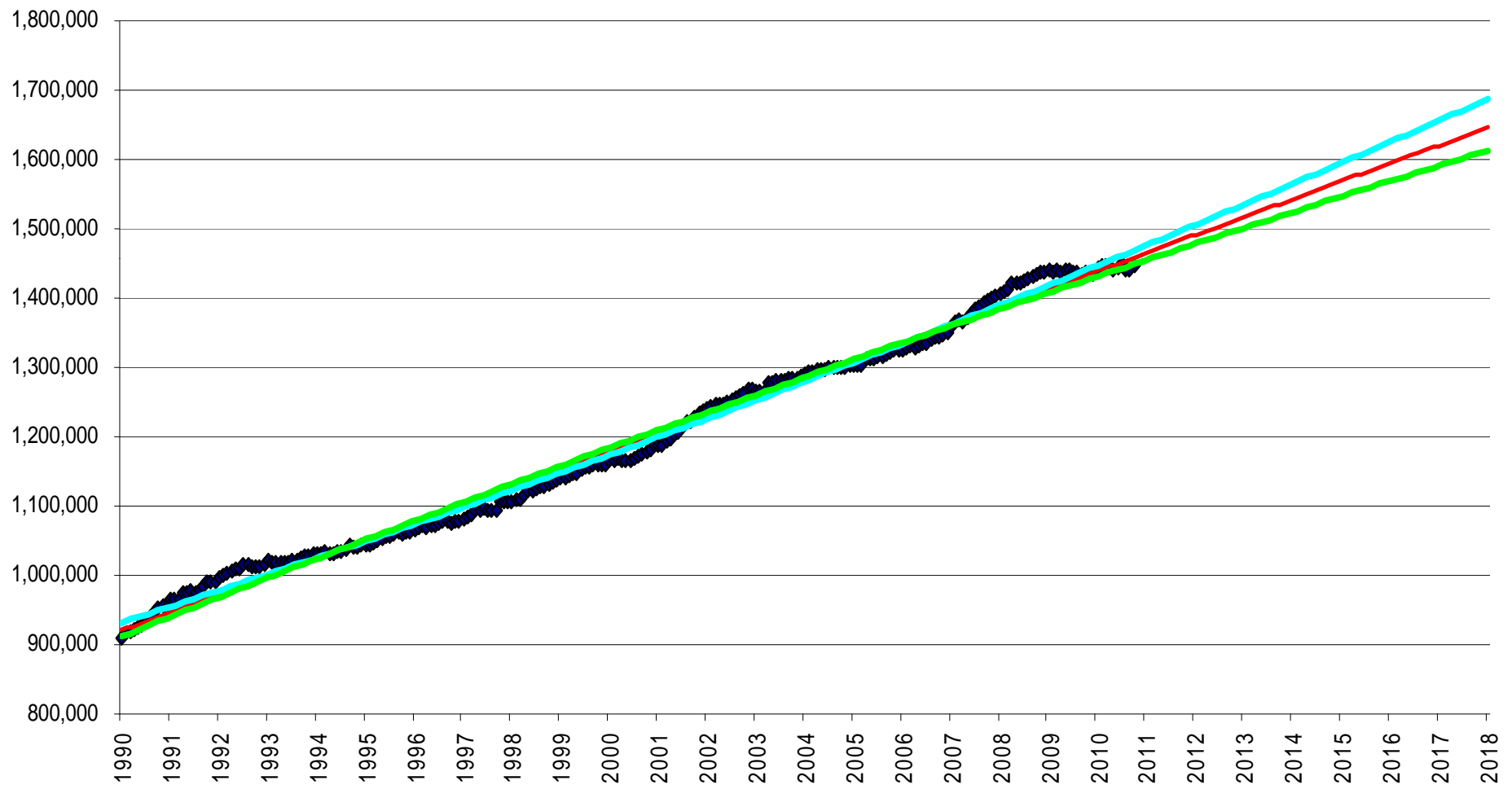
## Health Care and Social Service Employment in California



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## Health Care and Social Service Employment in California



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# Industry Projections Review

- Review by experts
  - LMID's chief economist and the Department of Finance review the Statewide industry projections
  - LMID local labor market consultants review the local area projections
  - Industry expert review invited
- Comparison of industry sector growth rates to growth rates published by other researchers and economic forecasts
- Adjustment based on expert review, industry comparisons, and recent economic events



# Occupational Employment Projections

- Estimate the changes in occupational employment over time resulting from industry growth, technological changes, and other factors
- Industry-specific
- Starts with current occupational staffing patterns collected by the Occupation Employment Statistics Program



# Occupational Employment Statistics

- Annual survey of approximately 35,000 employers in California
- Industry-specific
- Collects employment and wages by occupation within industry
- All industries, occupations, geographic areas



# Partial List of Hospital Occupations

| SOC Code | Occupation Title                                  | Employment in California |      |                |
|----------|---|--------------------------|------|----------------|
|          |   | 2008                     | 2018 | Numeric Change |
| 29-1111  | Registered Nurses                                 | 144,500                  |      |                |
| 31-1012  | Nursing Aides, Orderlies, and Attendants          | 36,000                   |      |                |
| 29-2061  | Licensed Practical and Licensed Vocational Nurses | 18,000                   |      |                |
| 43-6013  | Medical Secretaries                               | 14,800                   |      |                |
| 37-2012  | Maids and Housekeeping Cleaners                   | 11,000                   |      |                |
| 31-9092  | Medical Assistants                                | 10,200                   |      |                |
| 29-1126  | Respiratory Therapists                            | 9,300                    |      |                |
| 43-4111  | Interviewers, Except Eligibility and Loan         | 8,500                    |      |                |

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# Occupational Change Factors

- Account for shifting occupational utilization within an industry
- Calculated for each occupation in every industry
- Calculated for the Nation
- Calculated for a ten-year period
- Based on research by the BLS



# Partial List of Hospital Occupations

| SOC Code | Occupation Title                                  | Employment in California |         |                |
|----------|---|--------------------------|---------|----------------|
|          |   | 2008                     | 2018    | Numeric Change |
| 29-1111  | Registered Nurses                                 | 144,500                  | 182,600 | 38,100         |
| 31-1012  | Nursing Aides, Orderlies, and Attendants          | 36,000                   | 41,600  | 5,600          |
| 29-2061  | Licensed Practical and Licensed Vocational Nurses | 18,000                   | 20,800  | 2,800          |
| 43-6013  | Medical Secretaries                               | 14,800                   | 17,300  | 2,500          |
| 37-2012  | Maids and Housekeeping Cleaners                   | 11,000                   | 10,100  | -900           |
| 31-9092  | Medical Assistants                                | 10,200                   | 14,400  | 4,200          |
| 29-1126  | Respiratory Therapists                            | 9,300                    | 11,800  | 2,500          |
| 43-4111  | Interviewers, Except Eligibility and Loan         | 8,500                    | 10,800  | 2,300          |

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# Pharmacy Techs by Industry

| Industry (NAICS)  | Employment in California |        |                |
|---|--------------------------|--------|----------------|
|   | 2008                     | 2018   | Numeric Change |
| Health and Personal Care Stores (NAICS 446000 )         | 14,600                   | 18,900 | 4,300          |
| General Medical and Surgical Hospitals (NAICS 622100 )  | 6,200                    | 7,900  | 1,700          |
| Grocery Stores (NAICS 445100 )                          | 1,500                    | 1,900  | 400            |
| Employment Services (NAICS 561300 )                     | 500                      | 700    | 200            |
| Federal Government (NAICS 999100 )                      | 400                      | 400    | 0              |
| Local Government (NAICS 999300 )                        | 300                      | 300    | 0              |
| Offices of Physicians (NAICS 621100 )                   | 200                      | 500    | 300            |
| State Government (NAICS 999200 )                        | 200                      | 300    | 100            |
| Psychiatric & Substance Abuse Hospitals (NAICS 622200 ) | 100                      | 100    | 0              |
| Other Hospitals (NAICS 622300 )                         | 100                      | 200    | 100            |

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# Job Openings Due to Growth and Replacement Needs

- Estimates the projected number of opportunities to enter an occupation
- Measures minimum number of workers who need to be trained, if training is required to enter the occupation





# BLS Calculation - Replacement Needs

- Identify those workers leaving an occupation
- Determine whether those who separated were replaced
- Calculate historical replacement rate
- Apply historical rate to projections period to calculate projected replacement needs



# Occupational Projections Review

LMID analysts review preliminary projections to:

- Identify outliers or errors
- Identify projections that seem “unreasonable” based on State or national historical trends

And:

- Consult with local labor market consultants to review local area occupational projections
- Consider recent economic events



# Final Employment Projections Tables

- Industry Employment Projections
- Detailed Occupational Employment Projections
- Growth and replacement needs
- Occupations with the Most Job Openings
- Fastest Growing Occupations
- Industry-Occupational Matrix (Statewide Only)

**The final tables are placed on the LMID Web site.**

**<http://www.labormarketinfo.ca.gov/>**

Projections-Employ by Ind-Occ, California LaborMarketInfo - Windows Internet Explorer

http://www.labormarketinfo.edd.ca.gov/?pageid=145

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## Projections of Employment by Industry and Occupation

Projections of Employment estimate the changes in industry and occupational employment over time resulting from industry growth, technological change, and other factors. California produces long-term (10 year) projections of employment every 2 years for the State and local areas. Statewide short-term (2 year) projections are revised annually.

The files below contain all of the data for a single area. To extract data for selected occupations or areas, use the [Occupational Projections Data Search Tool](#).

California Community Colleges should go to [Job Outlook for Occupational Education Programs](#) for occupational projections by Taxonomy of Programs or Classification of Instructional Programs code.

Additional Resources:

- » [California Industry and Occupation Staffing Patterns](#)
- » [Industry Employment Projections Methodology](#)
- » [Occupational Employment Projections Methodology](#)
- » [Bureau of Labor Statistics Training Level Definitions](#)
- » [CodeFinder](#) to search for a particular code or occupation title

State and County

| Area        | Highlights | Industry Projections | Occupational Projections                           | Occupations With the Most Job Openings | Fastest Growing Occupations |
|-------------|------------|----------------------|--|--|-----------------------------|
| California: |            |                      | <a href="#">All Occupational Projections</a> (zip) |  |                             |

Done

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# Questions?

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